David Strohmaier

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Work Experience

2019-Ongoing Research

Associate

University of Cambridge ALTA Institute NLP technologies for language learning

2021–22 **Supervisor: Prolog**Robinson College

Robinson College University of Cambridge

2016 Internship

Hamburg Institute for Social Research (HIS)

2013–14 **Student Assistant** University of Göttingen

Awards & Grants

- 2018 Postgraduate Researcher Experience Programme
- 2015–18 AHRC Competition Studentship
- 2015 Best Social Science BA Diss. University of Göttingen
- 2013 Niedersachsenstipendium
- 2011 Deutschlandstipendium

Selected Projects

- 2024 **Character-Level Model**Training a character-level
 LM from scratch
- 2022 Modelling Complexity
 Using pymc and pyTorch
 to model lexical
 complexity datasets
- 2020–21 **WSD Systems**Multiple word-sense

 disambiguation systems
- 2018 Adaptive Utility
 Interactive visualisation of
 motivational change

Scientific Interests

- Modelling Cognitive Processes
- Deep Learning
- Decision Theory
- Bayesian Methods

Education

January 2023 - January 2026	PhD in Computer Science Investigating second language acquisition	University of Cambridge on using transformer LMs
2018-19	MPhil in Advanced Computer Science Awarded with Distinction	University of Cambridge
2015–18	PhD in Philosophy Without Corrections	University of Sheffield
2014–15	MA in Philosophy Awarded with Distinction	University of Sheffield
2012-14	BA in Philosophy and Sociology	University of Göttingen
2011-14	BA in Sociology	University of Göttingen

Skills

Python pyTorch numpy Transformers spaCy sklearn pymc Anaconda Prolog emacs Git LaTex

Publications

Books

2024 Strohmaier, D., Messerli, M.. Preference Change. Cambridge University Press.

Journal Papers & Proceedings

- 2024 Strohmaier, D., Buttery, P. Semantic Error Prediction: Estimating Word Production Complexity. *Proceedings of NLP4CALL 2024*.
- 2023 Wimmer, S., Strohmaier D, Contrafactives and Learnability: An Experiment with Propositional Constants. *Post-Proceedings of Logic and Engineering of Natural Language Semantics* 19.
- 2022 Wimmer, S., Strohmaier, D. Contrafactives and Learnability. Amsterdam Colloquium.
- 2022 Tyen, G., Strohmaier, D. (equal contribution) A Category Theory Framework for Sense Systems. GLOBALEX 2022 @ LREC.
- 2021 Yuan, Z., Tyen, G., Strohmaier, D. Cambridge at SemEval-2021 Task 1: An Ensemble of Feature-Based and Neural Models for Lexical Complexity Prediction. SemEval-2021.
- 2021 Cambridge at SemEval-2021 Task 2: Neural WiC-Model with Data Augmentation and Exploration of Representation. SemEval-2021. Model achieved best results on some tracks.
- 2021 Strohmaier, D. Organisation as Computing Systems. Journal of Social Ontology.
- 2021 Strohmaier, D. Ontology, Neural Networks, and the Social Sciences. Synthese.
- 2020 Strohmaier, D., Gooding, S., Taslimipoor, S., Kochmar, E. SeCoDa: Sense Complexity Dataset. *LREC 2020*.
- 2020 Strohmaier, D. Social-Computation-Supporting Kinds. *Canadian Journal of Philosophy*.
- 2020 Strohmaier, D. Two Theories of Group Agency. Philosophical Studies.
- 2018 Strohmaier, D. Group Membership and Parthood. Journal of Social Ontology.

Book Reviews

- 2021 Strohmaier. D. Review of Richard Pettigrew's "Choosing for Changing Selves". The Philosophical Quarterly.
- 2019 Strohmaier. D. Review of Richard Bradley's "Decision Theory with a Human Face". *Philosophical Psychology*.